

## GL-G8011U-H (GPON-ONT)



(2GE+1POTS)

### 1.Product introduction:

GL-G8011U-H is GPON terminal device,work with OLT,it can provide Internet,VOIP,V..It is based on mature and stable cost-effective GPON technology,providing 1 PON port,2 10/1000M,1 VOIP port.Adopt single fiber WDN technology(downlink 1490nm,uplink 1310nm),require only one fiber to connect with OLT,the longest transmitting distance can be 40KM,support power down report function,support local WEB management function.

### 2.Product interface(port and indicator light)

Ports:hardware connection,from left to right as per connection direction,connection sequence:RJ11 telephone port,internet port 2 to 1,reset button,USB port,DC12V port,power switch.

Indicator light:LED definition from left to right:power,fiber G,fiber signal,broadband,telephone,internet port 1 to 2.

### 3.Product features:

- 1)HGU ONU product modality,support bridge and NAT mode.
- 2)BOB product process
- 3)802.11b/g/n wireless access
- 4)Provide VOIP port,support connecting normal telephone
- 6)12V/1.5A external power

### 4.Product key features:

#### 1)Processor features:

support 800MHz frequency ARM processor  
support 32KB I-Cache and D-Cache

#### 2)Product key features:

##### 2.1)GPON

conform to ITU-T G.984.1/2/3/4standard  
support downlink speed 2.488Gbit/s,uplink speed1.244Gbit/s  
support 32 TCONT,256 GEMPORT  
support bothway FEC,support RS(255,239), RS(255,223)FEC CODEC  
support AES128 encryption and decryption function  
support SBA and DBA bandwidth allocation  
support isochronous ethernet  
support Dying-Gasp,support ONU detection  
support conform to G987.3 protocols GPON energy conservation

##### 2.2)VOIP

support 1 port voice processing1  
support all kinds of warning tone generation  
support G.711、 G.722、 G.729、 T38 CODEC  
support FoIP function  
support Fax/Modem VBD (Voice Band Data) function  
support echo restrain,voice activity checking,comfortable background noise,voice frame compensation function  
Support VoIP statistics,fault diagnosis function  
Each POTS can individually configure VoIP CODEC mode,can configure CODEC priority sequence,packaging interval.  
Support DTMF check,generate,deliver,recover function  
Support FSK generate,has calling number generate displaying function  
Support twice dialing,support RFC2833 in-band way transmitting DTMF voice  
Support tripartite conference function

Website: [www.gl-com.com.cn](http://www.gl-com.com.cn)

TEL: +86 755 8419 3000

Address: 4th. Floor,No. 2,1st. Caiyun Road, Jixiang Community,Longcheng Street,Longgang District, Shenzhen.ChinaFAX: +86755 8419 3093



### 3)business function

Layer 2 data business two-way wire-speed forwarding,bridge mode support 4k MAC address list

Support 802.3,802.1Q Tag/Untag ethernet frame,support QinQ;

Support flexible tag process,compatible CTC2.1,TR156 requirement

Support flexible classification,the max support 8K flexible classification rules

Support special message capture

Support link error code monitor and loopback monitor

Support 802.1ag/Y.1731,support connectivity monitor and performance test

Layer 3 data business two-way wire-speed forwarding,support IPv4,IPv6,support DS-Lite, 6RD hardware acceleration

Support NAPT hardware acceleration,support 8K hardware acceleration list

Support L2, L3 (IPv4/6) multicast forwarding,support multiple forwarding way

Support multicast copy function,support 3Kpcs V4 multicast groups and 768pcs V6 multicast group

Support user side copy function

Ethernet MAC support rate,duplex mode auto-negotiation and manual setting

UNI port support 802.1x identification,STP (Spanning Tree Protocol) /RSTP (Rapid Spanning Tree Protocol) spanning tree protocol

By SLA control,Policing,queue management,scheduling/congestion avoidance,discard management way,provide Qos guaranty for different priority.

Support based on entrance flow control based ,for the business that over flow,it can choose packet loss or pause frame back pressure

Support Qos function

Website: [www.gl-com.com.cn](http://www.gl-com.com.cn)

TEL: +86 755 8419 3000

Address: 4th. Floor,No. 2,1st. Caiyun Road, Jixiang Community,Longcheng Street,Longgang District, Shenzhen.ChinaFAX: +86755 8419 3093



ShenZhen GL-COM Technology CO., LTD.

### 5)Support protocol and standard:

ITU-T G.984.1/2/3/4、IEEE802.3,IEEE802.3u,IEEE802.3x,IEEE802.3z、IEEE802.1d,IEEE802.1p、IEEE802.1q、IEEE802.1x,RFC1155,RFC1157、RFC1112, RFC1113

### 5.Product specification

#### 1) Port:

Power:external power 12V/1.5A

Internet access:2pcs.support 10/100/1000M self-adaption

Optical port:one SC/PC port

Telephone port:one RJ11 telephone port

#### 2) hardware key equipment specification

CPU: MAC built-in 800Mhz ARM processor

MAC: ZX297100A

FLASH: NAND FLASH 1Gbit

DDR: 1Gbit

SLIC: Le9641

#### 3) product size:

Product size (LXWXH):163X125X50 mm

**4) Reliability and environmental suitability**

storage temperature humidity:-10°C—55°C

5%—95% non-condensing

Working temperature humidity:-10°C—50°C

5%—95% non-condensing

Atmospheric pressure: 62kPa—106kPa

Anti-thunder:line-lin:require 1.5KV

Port-Land:require 6KV

Anti-static:air discharge require 8KV(refer to IEC 61000-4-2)

Contact discharge:require 6KV(refer to IEC 61000-4-2)

EMC: ETSI EN 300386, EN 55022 (Class B)

Max distance:40KM

Max speed:1.25G

Installation place:user access point

---

Website: [www.gl-com.com.cn](http://www.gl-com.com.cn)

TEL: +86 755 8419 3000

Address: 4th. Floor,No. 2,1st. Caiyun Road, Jixiang Community,Longcheng Street,Longgang District, Shenzhen.ChinaFAX: +86755 8419 3093